

Quality by Experimental Design, second edition, revised and expanded, by Thomas B. Barker published by Marcel Dekker Inc., July 1994, 473pp, \$55.00

This is a book about Design of Experiment for both the novice and experienced users of DOE (Design of Experiment). If you are a student of DOE or a beginner this is a very good book to start you in the right path to quickly understand concept and techniques of Design of Experiments.

Part I: The Philosophy of Experimentation provides an unique insight and interpretation of what is DOE and what to do with it. I believe these insights can only be obtained from the author's personal experiences that he gained from actually doing it in the industry.

Factorial experiments are main emphasize of this book. It provide an operational and detailed description of two level factorial design of experiments. Which includes steps to the design and analysis of two level fractional factorial experiments. The author not only provides wealth of examples, it also provides examples as a whole case study, which DOEs are naturally merged into the whole spectrum of the activities of creating viable engineering solution to the problem.

This book does not cover experiments for optimization which mostly are using nonlinear model of the response function. For the readers who are into the subject of how to optimize control variables setting this is not the book for it.

For the excellent examples provided in the book and the comprehensive approach to the presentation of the examples of using the DOE techniques, this book is strongly recommended to the quality professional and engineering staff who has the responsibility of creating viable engineering solution for the process and product.

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